QC ABSTRACT

NAME OF WORK: Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	RCC(M20)	Compressive Strength(7days and 28days)	6 sets /101-150 cum	137.34	12	12

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-26-25** **Date: 18-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	16-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.79	–
2	Finess by Air permeablity method (m^2/kg,Min)	295.9	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Agency/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2023-06-26-25** **Date: 13-04-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 269:2015 Ordinary Portland cement Specification , IS 4031 (Part 4,5):1988 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	16-03-23
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-26-25** **Date: 18-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	189	189	1.3	98.7	90-100
3	20 mm	7166	7355	49.0	51.0	30-70
4	10 mm	5645	13000	86.7	13.3	10-35
5	4.75 mm	1721	14721	98.1	1.9	0-5
6	Pan	279	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-26-25** **Date: 18-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	14.2	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.41	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.23	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2023-06-26-25** **Date: 17-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	15-03-23

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	271	271	5.4	94.6	90-100
3	10 mm	2373	2644	52.9	47.1	25-55
4	4.75 mm	2092	4736	94.7	5.3	0-10
5	Pan	264	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2023-06-26-25** **Date: 17-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.47	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.27	–
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface. In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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BBMP, Bangalore

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2023-06-26-25** **Date: 17-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-03-23
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	15-03-23
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	33	33	3.3	96.7	90-100	90-100	90-100	95-100
3	2.36 mm	56	89	8.9	91.1	60-95	75-100	85-100	95-100
4	1.18 mm	236	325	32.5	67.5	30-70	55-90	75-100	90-100
5	600 micron	201	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	207	733	73.3	26.7	5-20	8-30	12-40	15-50
7	150 micron	187	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

Assistant Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2023-06-26-25** **Date: 17-03-23**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	8.0	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2023-06-26-25** **Date: 27-03-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-03-23
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test	:	25-03-23

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2023-06-26-25** **Date: 18-04-23**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-04-23

Sample Type /Size : Precast Cover Slab - 100mm thickness

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 14/04/2023

Grade of Slab : M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.48	100.48	1.121	4714	80.9	17.2	16.0	20.0
2	Cover Slab-2	77.51	100.52	1.127	4718	81.8	17.3	16.1	20.2
3	Cover Slab-3	77.49	100.51	1.115	4715	80.5	17.1	15.9	19.8

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2023-06-26-25** **Date: 21-04-23**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-23
Sample Type /Size	:	Precast Cover Slab - 250mm thickness
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	17/04/2023
Grade of Slab	:	M15

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	77.51	250.49	3.125	4718	81.9	17.4	16.1	20.2
2	Cover Slab-2	77.49	250.51	3.114	4715	81.1	17.2	16.0	20.0
3	Cover Slab-3	77.50	250.48	3.129	4716	81.5	17.3	16.1	20.1

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 03/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 29-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.70 X 149.41 X 151.18	22666	8.413	425.8	18.8	18.5
2	Drain Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.52 X 150.03 X 149.31	22732	8.973	422.3	18.6	
3	Drain Bottom Raft Concrete	M20	27/03/2023	03/04/2023	151.82 X 149.51 X 151.97	22698	8.705	413.7	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Agency/Representative

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-26-25** **Date: 24/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-03-23
Customer ID	:	Drain Bottom Raft Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	24/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	27/03/2023	24/04/2023	150.86 X 149.68 X 151.61	22580	8.439	530.0	23.5	23.4
2	Drain Bottom Raft Concrete	M20	27/03/2023	24/04/2023	149.25 X 150.05 X 151.68	22394	8.368	510.6	22.8	
3	Drain Bottom Raft Concrete	M20	27/03/2023	24/04/2023	151.36 X 149.45 X 150.34	22622	8.505	540.6	23.9	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 05/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	150.16 X 151.48 X 149.54	22747	8.893	423.5	18.6	18.6
2	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	151.77 X 151.25 X 151.35	22955	8.858	425.3	18.5	
3	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	149.82 X 151.28 X 149.76	22664	8.237	424.1	18.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 26/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	151.02 X 151.09 X 150.97	22817	8.674	544.5	23.9	23.0
2	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	149.31 X 151.38 X 151.83	22602	8.335	497.3	22.0	
3	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	150.30 X 150.95 X 150.82	22687	8.933	527.1	23.2	

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BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 05/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 05/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	150.12 X 150.87 X 150.45	22648	8.686	410.6	18.1	18.4
2	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	151.24 X 151.81 X 151.47	22961	8.921	428.8	18.7	
3	Drain Bottom Raft Concrete	M20	29/03/2023	05/04/2023	151.20 X 150.88 X 151.72	22813	8.644	416.7	18.3	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 26/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 31-03-23

Customer ID : Drain Bottom Raft Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 26/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	151.49 X 151.58 X 149.51	22964	8.316	533.1	23.2	23.1
2	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	149.10 X 151.00 X 149.44	22514	8.425	500.9	22.2	
3	Drain Bottom Raft Concrete	M20	29/03/2023	26/04/2023	150.10 X 149.48 X 151.17	22436	8.503	533.9	23.8	

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-26-25** **Date: 10/04/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-04-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	03/04/2023	10/04/2023	149.56 X 149.37 X 150.41	22340	8.995	406.7	18.2	18.2
2	Drain Side Wall Concrete	M20	03/04/2023	10/04/2023	150.90 X 151.93 X 151.66	22926	8.793	421.1	18.4	
3	Drain Side Wall Concrete	M20	03/04/2023	10/04/2023	150.04 X 150.46 X 149.89	22575	8.514	409.3	18.1	

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 02/05/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-04-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	03/04/2023	01/05/2023	150.19 X 149.89 X 149.87	22512	8.871	537.8	23.9	23.3
2	Drain Side Wall Concrete	M20	03/04/2023	01/05/2023	150.49 X 150.53 X 151.57	22654	8.940	504.9	22.3	
3	Drain Side Wall Concrete	M20	03/04/2023	01/05/2023	149.79 X 149.36 X 149.05	22372	8.510	530.9	23.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2023-06-26-25** **Date: 03/05/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	150.16 X 150.18 X 151.77	22550	8.553	539.3	23.9	23.3
2	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	150.82 X 149.82 X 149.23	22597	8.406	516.9	22.9	
3	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	149.53 X 150.29 X 151.88	22473	8.821	517.2	23.0	

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Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2023-06-26-25** **Date: 12/04/2023**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09

Agency : M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005

Customer's Reference : BBMP/EE/BTP/WO/159/2022-23

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-04-23

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	Drain Side Wall Concrete	M20	05/04/2023	12/04/2023	150.52 X 151.88 X 151.58	22862	8.543	426.8	18.7	18.5
2	Drain Side Wall Concrete	M20	05/04/2023	12/04/2023	151.21 X 151.75 X 151.92	22946	8.286	423.3	18.4	
3	Drain Side Wall Concrete	M20	05/04/2023	12/04/2023	149.59 X 151.74 X 150.56	22699	8.524	417.1	18.4	

* The results obtained are satisfactory as per standard requirements

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2023-06-26-25 **Date: 03/05/2023**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads, Drains and Construction of Culverts at Maruthi Layout, Bhuvaneshwarinagara and Surrounding in ward no.09
Agency	:	M/s S.S Road Developers, Prop.A.S Mani, no:2/2,1st Cross,B.S.A Road, Frezer Town, Bangalore-560005
Customer's Reference	:	BBMP/EE/BTP/WO/159/2022-23
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-04-23
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2023

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	151.47 X 150.20 X 150.48	22750	8.746	545.3	24.0	23.3
2	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	149.36 X 149.35 X 150.68	22308	8.289	495.5	22.2	
3	Drain Side Wall Concrete	M20	05/04/2023	03/05/2023	150.91 X 150.53 X 151.57	22717	8.195	541.9	23.9	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.
All information furnished by Agency/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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